



Water-Data Report 2006

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

Lower Green Basin
Duchesne Subbasin

LOCATION.--Lat 40°29'36", long 110°34'39" referenced to North American Datum of 1927, in SE ¼ NW ¼ SW ¼ sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, UT, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good. Flow partially regulated at Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 2.0 ft³/s, Mar 16, 2006 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s, Jun 6, gage height, 4.92 ft; minimum daily discharge 38 ft³/s on several days in Feb and Mar, minimum discharge 2.0 ft³/s, Mar 16.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	55	64	47	47	41	43	42	42	421	62	54	46
2	55	64	51	47	41	40	41	48	427	61	49	46
3	55	64	48	46	41	40	43	49	437	60	50	46
4	56	64	50	46	41	40	46	49	477	59	50	46
5	55	64	60	47	41	39	52	50	868	57	52	45
6	58	64	48	46	46	40	47	49	945	57	51	46
7	63	63	45	45	42	40	44	48	873	58	49	47
8	64	63	44	43	41	40	47	49	943	56	48	50
9	64	63	47	53	41	38	48	48	815	56	47	50
10	63	62	49	41	39	39	48	48	991	55	47	50
11	63	61	49	45	44	38	46	49	733	55	47	48
12	63	50	48	43	41	38	46	49	622	54	47	46
13	62	48	47	40	41	39	48	50	558	53	47	45
14	62	50	45	44	40	42	47	51	497	52	48	46
15	62	48	43	43	39	38	51	52	388	51	48	50
16	62	50	45	43	50	38	48	54	304	51	49	49
17	62	51	46	42	40	38	46	53	250	50	49	47
18	63	51	46	44	39	39	43	55	235	51	48	46
19	64	48	47	41	38	40	42	57	216	54	48	46
20	66	48	47	41	38	41	42	60	192	55	48	46
21	64	47	46	40	42	39	42	62	173	51	48	46
22	65	47	47	39	43	39	42	68	138	50	48	48
23	65	47	49	40	40	39	41	63	114	50	48	47
24	65	47	46	40	40	40	42	62	95	51	49	47
25	65	47	45	43	40	40	42	64	76	51	49	46
26	65	46	45	44	41	42	41	72	69	51	54	45
27	65	48	45	43	40	41	42	139	67	49	50	44
28	69	54	45	42	43	40	41	333	63	49	48	44
29	65	46	45	43	---	49	41	384	63	49	48	44
30	63	47	47	42	---	44	41	402	62	49	47	45
31	63	---	48	42	---	42	---	411	---	51	47	---
Total	1,931	1,616	1,460	1,345	1,153	1,245	1,332	3,070	12,112	1,658	1,512	1,397
Mean	62.3	53.9	47.1	43.4	41.2	40.2	44.4	99.0	404	53.5	48.8	46.6
Max	69	64	60	53	50	49	52	411	991	62	54	50
Min	55	46	43	39	38	38	41	42	62	49	47	44
Ac-ft	3,830	3,210	2,900	2,670	2,290	2,470	2,640	6,090	24,020	3,290	3,000	2,770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	55.6	51.3	48.6	46.3	46.3	48.6	48.6	119	248	164	86.0	70.2
Max	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1997)	(1999)	(1998)	(1999)	(1999)
Min	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1991)	(1993)

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006			Water Years 1988 - 2006	
Annual total	50,612		29,831			
Annual mean	139		81.7		86.2	
Highest annual mean					212	1999
Lowest annual mean					40.1	1992
Highest daily mean	1,040	May 27	991	Jun 10	1,310	Jul 1, 1998
Lowest daily mean	37	Jan 6	38	Feb 19	22	Dec 1, 1991
Annual seven-day minimum	38	Mar 17	39	Mar 11	26	Dec 30, 1987
Annual runoff (ac-ft)	100,400		59,170		62,420	
10 percent exceeds	383		65		146	
50 percent exceeds	55		48		46	
90 percent exceeds	42		40		34	

